INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/18644

A CONTRACTOR AS A CONTRACTOR A				
A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : B01D 37/04				
US CL: 210/709 According to International Patent Classification (IPC) or to both national classification and IPC				
According to International Patent Classification (IPC) or to both handlar classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S. : Ple	ease See Continuation Sheet		1	
	n searched other than minimum documentation to the ex	east that such documents are included in	the fields searched	
Documentation	n searched other than minimum documentation to the ex-	icit that soon observed		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
Electronic dat	a base consulted during the international con-			
C. DOCL	IMENTS CONSIDERED TO BE RELEVANT		Relevant to claim No.	
Category *	Citation of document with indication, where appropriate, of the relevant passages		1-21	
A	US 6,521,135 A (BENESI) 18 February 2003, see enti	re document.	1-21	
			1-21	
Y	US 6,159,359 A (BENESI) 12 December 2000, see en	tire document.	. 2.	
-			1-21	
A	US 5,510,025 A (BENESI) 23 April 1996, see entire document.			
	1		1-21	
Y	Y US 5,462,677 A (BENESI) 31 October 1995, see entire document.			
			1-21	
Y	US 5,382,356 A (THOGHO et al) 17 January 1995, see entire document.		j	
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Furthe	r documents are listed in the continuation of Box C.	See patent family annex.	Glisa data or priority	
Further documents are fisted in the continuous. Special categories of cited documents: Special			ication but cited to understand the	
1		principle or theory underlying the in	vention	
"A" docume	nt defining the general state of the art which is not considered to be ular relevance	f	e claimed invention cannot be	
		considered povel or cannot be consi	tered to involve an inventive step	
	pplication or patent published on or after the international filing date	when the document is taken alone		
"L." docume	nt which may throw doubts on priority claim(s) or which is cited to	-Y- document of particular relevance; th	e claimed invention cannot be	
establish	the publication date of another citation or other special reason (as			
specifie		considered to involve an inventive a combined with one or more other so being obvious to a person skilled in	the art	
"O" document referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than the "&" document member of the same patent family			nt family	
priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report				
1		23 DEC 2004		
14 December 2004 (14.12.2004)		in the least officers	111	
Name and mailing address of the ISA/US		1 10	tutile	
Mail Stop PCT, Attn: ISA/US		Joseph W. Drodge	magnes	
Commissioner for Patents P.O. Box 1450		Telephone No. 571-272-1790	EU	
Alexandria, Virginia 22313-1450				
Facsimile No. (703) 305-3230				

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Continuation of B. FIELDS SEARCHED Item 1: 210/709, 85,90,96,1,103,106,141,143,149,177,184,186,194,198.1,205,209,210,212,216,359,387,391,398,399,407,409,410,702,737,738 7,739,741,742,769-774,780,805,806,808; 10045,48,193-199			
210/709.85,90,96.1,103,106,141,143,149,177,184,186,194,198.1,205,209,2	10,212,216,339,387,391,336,333,461,142,142,142,142,142,142,142,142,142,14		
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